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Application resource demand phase analysis and prediction in support of dynamic resource provisioning

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J Zhang, M Feust, R Guepierre, ... - Computing, 2007, ICAC, ... - IEEE Explore, IEEE.org
... The phase profile learned from historical runs is used to classify and predict phase behavior using a set of algorithms based on clustering. ... VMM ... where C and Cp denote the relative unit cost of phase transition and the relative unit cost of misprediction penalty with regard to the ...

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SM Bennett, AV Anderson, ... - US Patent App. ... 2003 - freepatentsonline.com
... 33. The apparatus of claim 30 further comprising a VMM behavior predictor in a processor to predict the predefined behavior of the VMM 34. ... 35. An apparatus comprising: a transition type determinator to determine that a transition from a virtual machine monitor (VMM) to a ...

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Optimizing processor-managed resources based on the behavior of a virtual machine monitor

SM Bennett, AV Anderson, S Jayasingh, ... - US Patent App. 10/ ... 2003 - Google Patents
... [0040] In one embodiment, the processor notification module 204 includes a transition type determinator 206 and a VMM operation controller 208. The transition type determinator 206 determines the type of a transition that is about to occur from the VMM to a VM ...

Longitudinal determination of skin collagen glycation and glycooxidation rates predicts early death in C57BL/6N mice

(HTML) from frontiers.org

... NR KLEINMAN, VM MONNIER - The FASEB Journal, 2000 - FASEB
... is a life span-determining process.—Sell, DR, Kleinman, NR, Monnier, VM Longitudinal determination ..., the first evidence that markers of glycation and glycooxidation can predict individual longevity ... and are influenced by oxidative events that are catalyzed by transition metals and ...

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F Machida, M Kawato, ... - 2008 - computer.org
... 70% 30% VMM ... The generated prediction models are evaluated by whether they can predict precisely the 8 provisioning requests in advance. The provisioning costs: cij that are the transition time from standby state j to the application i are set as Figure 7. The threshold for the ...

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VK Naik, S Sivasubramanian, D Bortz, ... - Proceedings of the 4th ... 2003 - portal.acm.org
... From this model, the Host Agent predicts the probability for the system to be "idle" from its ... bursts of busy workload and leaving the system idle rest of the time, the transition probability from ... service interfaces and can be deployed on any grid node with the help of the local VMM. ...

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Bent-core liquid crystal (LC) decorated gold nanoclusters: synthesis, self-assembly, and effects in mixtures with bent-core LC hosts

VM Marx, H Gierls, PA Helmay, ... - J. Mater. Chem., 2008 - xlink.rsc.org
... as pointed out recently by Serrano et al.,18 the special molecular packing of bent-core LCs might well be a starting point for ... Melting points, phase transition temperatures, and the corresponding enthalpy values of all final bent-core compounds were determined by means of a ...

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Predict computing platform memory power utilization

R Dodeja, N Chandwani, ... - US Patent App. ... 2006 - freepatentsonline.com
... online state 520, transition feature 218 may cause memory module 160 - 1 to transition to offline ... Thus, the process may return to block 620 and/or 630 to predict the use of ... portion of a core that operates using virtualization technology/virtual machine monitor (VT/VMM) support in ...

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Towards High Assurance Networks of Virtual Machines

(PDF) from psu.edu

F Bauriedl, ... - Proceedings of the 3rd European Conference on ... 2009 - Springer
... run at the lowest level, the kernel one, only the first one able to predict and prevent ... Manitou [19] is a system im-plemented within a VMM that ensures that a VM can only ... Notstat [32] is a NIDS that applies state transition analysis techniques by modeling intrusions through state ...


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METHOD OF MIGRATION BETWEEN VIRTUAL MACHINE AND PHYSICAL MACHINE AND MACHINE SYSTEM THEREOF

T SEKIGUCHI, H SATO, ... - US Patent App. 12/165,687, 2008 - Google Patents

... processing by the other guest OSs; therefore, there is a problem that it is difficult to **predict** the performance ... 0009] The **virtual machine** method has a characteristic that a **VM** defined on a computer can be migrated and executed on another computer where a **VMM** is executed ...

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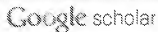
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Y Bai, J Rao... - 2009 24th IEEE International Conference on ... 2009 - computer.org
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 ... Time-related state transitions are driven by a virtual clock that advances in response to external tick calls. ... Advance reservations for predictive service in the Internet. ... Modeling and managing state in distributed systems: The role of OGSI and WSRF. ...
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SM Bennett, AV Anderson, S Jayasingh... - US Patent App. 10/ ... 2003 - Google Patents
 ... A SET OF OPERATIONS TO BE PERFORMED FOR THE TYPE OF TRANSITION C 506 ... AND VMCS JC 862 STORE MODIFIED VMM STATE AND LOAD GUEST STATE JZ 850 ... use of processor-managed resources based on the behavior of a virtual machine monitor with respect ...

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SM Bennett, AV Anderson... - US Patent App. ... 2003 - freepatentsonline.com
 ... of claim 30 further comprising a VMM behavior predictor in a processor to predict the predefined ... the processor to set execution control information, VMM state information and VM state information in ... VMM operation controller is to respond to a determination that the transition is a ...
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F Maachida, M Kawato... - 2006 - computer.org
 ... Virtual Machine Monitor (VMM) ... The logistic regression analysis is one of data mining methods to predict the binary dependent variable or ratio with input several independent variables [4]. The probability of the provisioning request for ... Figure 4. Example of standby state transition ...
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P England - Trusted Computing-Challenges and Applications, 2006 - Springer
 ... be useful, the remote entity or the local-sealer must be able to predict and/or ... Security-relevant state transitions can occur if an attacker exploits a bug in the trusted computing base ... from a read-only image provides useful remediation of the code and data state diversity problems ...
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E Feller, L Rilling, C Menn, R Louaux... - the 2010 IEEE/ACM int ... 2010 - portal.acm.org
 ... Therefore, we monitor and keep track of the previous idle times. Afterwards, we accumulate these values to predict the upcoming idle period using the following recursive equation: ... Finally, we transition the nodes into a lower power-state when $T_{i+1} > \text{Threshold}$ holds. III. ...
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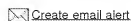
JJ Donovan - 1975 - dspace.mit.edu
 ... m-VM's running: y is thO Service rate At which the data base virtual machine is running when there are m-1 modeling VM and one data base VM running. ... Using a birth/death process model [Drake: 1967], the state transition diagram is shown in Figure 7. mXo (m-1)A P0 P1 ...
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SC Kim... - International Journal of the Korean Society of ... 2006 - Citeseer
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